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सूती बंटिंग कपड़ा, रंगीन — विशिष्टि
(तीसरा पुनरीक्षण)

**Textiles — Handloom Cotton Bunting
Cloth, Dyed — Specification**
(*Third Revision*)

ICS 59.080.30

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FOREWORD

This Indian Standard (Third Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textiles Division Council.

This standard was first published in 1955 and subsequently revised in 1982 and 1991. This standard has been again revised to incorporate the following major changes:

- a) Requirement and test method for identification of material has been incorporated;
- b) Amendment issued has been incorporated;
- c) Tolerance on mass has been modified;
- d) Sampling plan has been modified;
- e) References to Indian Standards have been updated; and
- f) BIS certification marking clause has been updated.

The composition of the Committee responsible for the formulation of this standard is given in Annex E.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

TEXTILES — HANDLOOM COTTON BUNTING CLOTH, DYED — SPECIFICATION

(Third Revision)

1 SCOPE

1.1 This standard prescribes constructional particulars and other requirements for three varieties of handloom cotton bunting cloth, dyed.

1.2 This standard does not specify the general appearance, feel, finish, etc.

2 REFERENCES

The standards listed in Annex A contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A.

3 ATMOSPHERIC CONDITIONS FOR TESTING

Test specimens may be conditioned and tested in the prevailing atmosphere for determining the conformity of the cloth to this standard. However, in all cases of disputes, specimens shall be conditioned and tested in the standard atmosphere as specified in the referred Indian Standards on test methods.

4 YARN

The cotton yarn used shall conform to the requirements specified in IS 171.

5 REQUIREMENTS

5.1 The bunting cloth shall conform to the requirements specified in Table 1.

5.1.1 However, breaking load requirement shall be optional. It shall be enforced only when conformity of cotton yarn to the requirements specified in IS 171 is not known.

5.2 The bunting cloth shall also conform to the requirements specified in Table 2.

5.3 The bunting cloth shall be woven in plain weave.

5.4 Dimensions

Length and width of the cloth when determined in accordance with IS 1954 shall be as agreed to between the buyer and the seller or as declared by the seller subject to the tolerances specified in the Government of India, Ministry of Commerce and Industry Notification No. S. O. 2937 dated 20 September 1962 issued under *Trade and Merchandise Marks Act 1958* (43 of 1958) (see Annex B).

**Table 1 Constructional Particulars and Breaking Load Requirements for
Handloom Cotton Bunting Cloth, Dyed**

(Clause 5.1)

Variety No.	Count of Yarn, Universal Count (Cotton Count)		Ends/dm	Picks/dm	Mass	Breaking Load, N	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Warp	Weft			g/m ²	Warp	Weft
1	60 tex × 2 (10s/2)	60 tex (10s)	110	140	230	400	200
2	30 tex × 2 (20s/2)	30 tex × 2 (20s/2)	160	170	205	460	480
3	30 tex × 2 (20s/2)	30 tex × 2 (20s/2)	180	180	230	480	480
Tolerance, percent	± 5	± 5	± 5	± 5	± 5	– 5 on average value and – 15 on individual value	
Method of test	IS 3442	IS 3442	IS 1963		IS 1964 or Annex D	IS 1969 (Part 1)	

Table 2 Other Requirements for Handloom Cotton Bunting Cloth, Dyed
(Clause 5.2)

SI No.	Characteristics	Requirement	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Identification of material (<i>see</i> Note)	100 percent cotton	IS 667
ii)	Dimensional change, percent, <i>Max</i>	4	IS 2977
iii)	Scouring loss percent, <i>Max</i>	2.5	IS 1383
iv)	pH value of the aqueous extract	6.0 to 8.5	IS 1390
v)	Colour fastness:		
	a) Light (Change in colour)	5 or better	IS/ISO 105-B01 or IS/ISO 105-B02
	b) Washing: Test A (1)		IS/ISO 105-C10
	1) Change of colour	4 or better	
	2) Staining on fabric	4 or better	

NOTE — Impurities of less than 0.2 percent shall be permitted.

5.5 In order to illustrate or specify the indeterminable characteristics, such as general appearance, lustre, feel and shade, if a sample shall be agreed upon and sealed, then the supply shall be in conformity with the sample in such respects.

5.5.1 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

6 INSPECTION

6.1 The bunting cloth when visually inspected should be free from the major flaws listed at Annex C.

6.1.1 The number of permissible major flaws per unit length in the cloth shall be as agreed to between the buyer and the seller.

6.2 For details of the flaws mentioned in **6.1**, a reference may be made to IS 14466.

7 MARKING

7.1 The bunting cloth shall be suitably marked with the following information:

- Name of the material and variety no.;
- Manufacturer's name, initials or trade-mark;
- Length (cm) and width (cm);
- Month and year of manufacture; and
- Other declarations required as per law in force.

7.2 BIS Certification Marking

The bunting cloth conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the bunting cloth may be marked with the Standard Mark.

8 PACKING

Unless otherwise agreed upon by the buyer and the seller, the bunting cloth shall be preferably packed in bales or cases in conformity with the procedure laid down in IS 1347 or IS 293.

9 SAMPLING

9.1 Lot

The quantity of bunting cloth of the same variety delivered to one buyer against one despatch note shall constitute a lot.

9.2 The conformity of the lot to the various requirements specified in the standard shall be determined on the basis of tests carried out on the samples selected from the lot.

9.3 Unless otherwise agreed, the number of pieces selected at random for inspection shall be in accordance with Table 3.

9.3.1 For selection of samples at random from the lot, procedure given in IS 4905 may be followed.

Table 3 Sample Size and Permissible Number of Non-Conforming Pieces*(Clauses 9.3 and 9.4)*

Lot Size	Sample Size	Permissible Number of Non-Conforming Blankets	Sub-Sample Size
(1)	(2)	(3)	(4)
Up to 90	5	0	3
91 to 150	8	0	3
151 to 500	13	1	5
501 to 1 200	20	1	5
1 201 to 10 000	32	2	8
10 001 to 35 000	50	3	8
35 001 to 5 00 000	80	5	13
5 00 001 and above	125	7	13

9.4 Number of samples and criteria for conformity shall be as follows

<i>Characteristic</i>	<i>Number of Samples</i>	<i>Criteria of Conformity</i>
Count of yarn, ends, picks, length, width and visual inspection	According to column 2 of Table 3	Number of non-conforming pieces shall not exceed the corresponding number given in column 3 of Table 3
All other requirements	According to column 4 of Table 3	All the test pieces shall meet the requirement

ANNEX A

(Clause 2)

LIST OF REFERRED INDIAN STANDARDS

<i>IS No.</i>	<i>Title</i>	<i>IS No.</i>	<i>Title</i>
171 : 1993	Textiles — Ring spun grey cotton yarn for weaving specification (<i>fourth revision</i>)	1969 (Part 1) : 2018	Textiles — Tensile properties of fabrics: Part 1 Determination of maximum force and elongation at maximum force using the strip method (<i>fourth revision</i>)
293 : 1980	Code for seaworthy packaging of cotton yarn and cloth (<i>third revision</i>)	2977 : 1989	Methods for determination of dimensional changes of woven fabrics (other than wool) on soaking in water (<i>first revision</i>)
667 : 1981	Methods for identification of textile fibres (<i>first revision</i>)	3442 : 1980	Method for determination of crimp and count of yarn removed from fabrics (<i>first revision</i>)
1347 : 1972	Specification for inland packaging of cotton cloth and yarn (<i>first revision</i>)	4905 : 2015	Random sampling and randomization procedures (<i>first revision</i>)
1383 : 1977	Methods for determination of scouring loss in grey and finished cotton textile materials (<i>first revision</i>)	14466 : 1997	Fabrics — Description of defects — Vocabulary
1390 : 2019	Methods for determination of pH value of aqueous extracts of textile materials (<i>second revision</i>)	105-B01 : 2014	Textiles — Tests for colour fastness: Part B01 Colour fastness to light: Daylight
1954 : 1990	Determination of length and width of woven fabrics — Methods (<i>second revision</i>)	105-B02 : 2014	Textiles — Tests for colour fastness: Part B02 Colour fastness to artificial light: Xenon arc fading lamp test
1963 : 2004	Methods for determination of threads per unit length in woven fabrics (<i>second revision</i>)	105-C10 : 2006	Textiles — Tests for colour fastness: Part C10 Colour fastness to washing with soap or soap and soda
1964 : 2001	Methods for determination of weight per square metre and weight per linear metre of fabrics (<i>first revision</i>)		

ANNEX B

(Clause 5.4)

**EXTRACTS FROM THE GOVERNMENT OF INDIA, MINISTRY OF
COMMERCE AND INDUSTRY (TRADE AND MERCHANDISE MARKS)
NOTIFICATION NO. S. O.2937, DATED 20 SEPTEMBER 1962**

B-1 A trade description of length stamped on grey, bleached, mercerised or coloured cotton piece goods:

- a) in pieces stamped as of length 9 metres and below the stamped length shall not exceed the actual length by more than 1 percent of the piece length or 7.5 cm whichever is less; and
- b) in pieces stamped as of length above 9 metres the stamped lengths shall not exceed the actual length by more than 0.6 percent of the piece length or

7.5 cm whichever is higher. Provided that the average length of the pieces in question shall not be less than the stamped length.

B-2 A Trade description of width stamped on grey, bleached, mercerised or coloured cotton piece goods:

- a) in pieces stamped as of width 102 cm or below, the stamped width shall not exceed the actual width at any point by more than 1.3 cm;

b) in pieces stamped as of width over 102 cm upto 152 cm the stamped width shall not exceed the actual width at any point by more than 1.25 percent of the stamped width of the piece; and

c) in pieces stamped as of width 152 cm and above the stamped width shall not exceed the actual width at any point by more than 1.25 percent of the stamped width of the piece or 2.5 cm whichever is less.

Provided that average width of the piece in question shall not be less than the stamped width.

ANNEX C

(Clause 6.1)

LIST OF MAJOR FLAWS

One or more ends missing in the body of the material throughout its length, more than three ends missing at a place and running over 60 cm, or prominently noticeable double end running throughout the piece.

Undressed snarls noticeable over a length exceeding 5 percent of the length of the piece.

Smash definitely rupturing the texture of the fabric.

Hole, cut or tear.

Reed marks prominently noticeable over a length exceeding 5 percent of the piece.

Defective or damaged selvedge noticeable over a length exceeding 5 percent of the length of the piece.

Skewing of more than three percent on weft.

Weft crack or two or more missing picks across the width of the fabric.

Warp or weft bar due to the difference in raw material, count twist, lustre, colour, shade or spacing of adjacent groups of yarns (starting mark).

More than two adjacent ends running parallel, broken or missing and extending beyond 10 cm. Noticeable warp or weft float in the body of the fabric.

Noticeable oil or other stain in the fabric.

Oily weft in the fabric.

Prominently noticeable slub.

Conspicuous broken pattern.

Gout due to foreign matter, usually lint or waste woven into the fabric.

Prominent selvedge defect.

Significant shading or listing in fabric having a gradual change in tone or depth of shade of fabric (excluding selvedge or border running parallel to the selvedge).

Coloured flecks.

Blurred or dark patch.

Patchy, streaky or uneven dyeing.

Dye bar.

Fuzzy appearance.

ANNEX D

(Table 1)

METHOD FOR DETERMINATION OF MASS OF FABRIC

D-1 Cut four specimens of 100 mm × 100 mm from a sample. Condition all the specimens in the desiccator charged with saturated solution of sodium nitrate at 27 ± 2 °C for a period of 24 h. Remove all the specimens

from the dessicator and immediately determine their collective mass in weighing balance to the nearest milligram.

D-2 Calculate mass of fabric in g/m².

ANNEX E*(Foreword)***COMMITTEE COMPOSITION**

Handloom and Khadi Sectional Committee, TXD 08

<i>Organization</i>	<i>Representative(s)</i>
Weavers Service Centre, Delhi	SHRI VISHESH NAUTIYAL (Chairman) SHRI VIKAS KUMAR (<i>Alternate</i>)
All India Handloom Fabrics Marketing Cooperative Society Ltd, Delhi	SHRI R. UTHAMANI SHRI SHRIKANT (<i>Alternate</i>)
Association of Corporations of Apex Societies of Handlooms, Delhi	SHRI ABDUL REHMAN SHRI ANIL KUMAR SINGH (<i>Alternate</i>)
Baster Adimjati Sewak Sangh, Baster	SHRI SUMIT DAS SHRI AMIT DAS (<i>Alternate</i>)
Commissioner Handloom & Textiles, Himachal Pradesh	REPRESENTATIVE OF COMMISSIONER & DIRECTOR OF INDUSTRIES
CRPF, New Delhi	SHRI RANDHIR KUMAR JHA SHRI D. N. LAL (<i>Alternate</i>)
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Directorate of Handloom & Textiles, Madhya Pradesh	DIRECTOR SHRI MAHESH GULATI (<i>Alternate</i>)
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Indian Institute of Handloom Technology, Jodhpur	DR J. SIVAGNANAM
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Metpalli Khadi Gramodyog Pratisthan, Telangana	SHRI G. MADHAV
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Northern India Textile Research Association, Ghaziabad	DR M. S. PARMAR

<i>Organization</i>	<i>Representative(s)</i>
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The Tamil Nadu Handloom Weavers' Cooperative Society Ltd, Chennai	SHRI T. N. VENKATESH SHRI K. KATHIRESAN (<i>Alternate</i>)
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